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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/541,256	04/17/2006	Fung-Lung Chung	11015-008	4893
29847 Beusse Wolter	7590 08/01/2008 Sanks Mora & Maire	1	EXAM	IINER
390 N. ORAN		STONE, CHRISTOPHER R		
SUITE 2500 ORLANDO, FL 32801			ART UNIT	PAPER NUMBER
			1614	
			MAIL DATE	DELIVERY MODE
			08/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/541,256	CHUNG ET AL.	
Examiner	Art Unit	
CHRISTOPHER R. STONE	1614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

earned	patent	term	adjustm	ent.	See 3	CFR	1./04(D).

1) Responsive to communication(s) filed on 30 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 15-17 is/are withdrawn from consideration. 5) Claim(s)	Status			
4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 15-17 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The cath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Clied (PTO-892) 3) Information Jueckscure Statems N(e) (PTO-948) 4) Interview Summary (PTO-413) Paper No(e) Malal Date Paper No(e) Malal Date Paper No(e) Malal Date Statems N(e) (PTO-948) 5) Notice of Informal Patent At‡lication Paper No(e) Malal Date Statems N(e) (PTO-948) 6) Other:	2a)⊠	This action is FINAL . 2b Since this application is in condition fo	This action is non-finer allowance except for for	rmal matters, prosecution as to the merits is
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PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20080729	1) Notice 2) Notice 3) Information Paper	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTC motion Disclosure-Statement(s) (PTO/SE/08) T No(s)/Mail Date	51 6) 6	Paper Nots/Mail Date. Notice of Informal Patent Application Other:

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DETAILED ACTION

Applicants' arguments, filed June 30, 2008, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-6, 9 and 12 are rejected under 35 U.S.C. 102(a) as being anticipated by Hecht et al.

Claims 1-6, 9 and 12 are drawn to a method of inhibiting lung tumorigenesis in a mammal in need thereof, comprising administering to said mammal an effective amount of a conjugate of an isothiocyanate at the post-initiation stages of tumor growth. Post-initiation stage is defined in the specification as any time period after exposure to a carcinogen. Hecht et al discloses a method of inhibiting lung tumorigenesis (malignant tumor growth) in a mouse, comprising the oral administration of an isothiocyanate conjugate (PEITC-NAC) at the post-initiation stages of tumor growth (p. 1456, column 2, paragraph 2: Fig. 2: Table II, groups 5.11 and 14).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7, 8, 10, 11, 13 and 14 are rejected under 35 U.S.C. 103(a)as being unpatentable over Hecht et al.

In addition to the aforementioned teachings, Hecht et al discloses that lung cancer is the most common cancer in the world and the leading cause of cancer death in the United States. Smokers and ex-smokers are disclosed as high-risk for the development of lung cancer. Furthermore, Hecht et al teaches that there are no chemopreventative agents with proven efficacy in humans and that the goal of their research is to identify and develop such agents. Therefore it would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the method of

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Hecht et al to inhibit tumorigenesis in human smokers and ex-smokers, since lung cancer is so prevalent in this patient population, thus resulting in the practice of the instantly claimed invention with a reasonable expectation of success. It would have been obvious to one of ordinary skill in the art to accomplish oral administration using a tablet or capsule dosage form. Tablets and capsules are commonly used oral dosage forms in the pharmaceutical formulation art. The optimization of the dosage amount and schedule would have been obvious to one of ordinary skill in the art at the time of the invention to determine the regimen with maximum efficacy. This routine experimentation is common in the pharmaceutical art. Applicant is reminded of in re Aller, which affirmed that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454,456, 105 USPQ 233, 235 (CCPA 1955)

Response to Arguments

Applicant alleges to have submitted a document, authored by the Applicants, that predates Hecht et al, showing the conception of the invention of claim 1, before Hecht et al. There is no such publication in the response documents, filed June 30, 2008, to be considered. Additionally, there may be doubt as to which authors of a reference invented the disclosed subject matter and a reference may not demonstrate the conception of each and every claimed limitation in the instant application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER R. STONE whose telephone number is (571)270-3494. The examiner can normally be reached on Monday-Thursday, 7:30am-4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin H. Marschel can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

29July2008 CRS

/Ardin Marschel/ Supervisory Patent Examiner, Art Unit 1614